

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A catalyst particle for a cathode of fuel cells, wherein the whole particle or at least the surface of the particle comprises an alloy of ~~two or more metals selected from the group consisting of Fe, Co, Ni, Rh, Pd, Pt, Cu, Ag, Au, Zn, and Cd~~ FeCu, FeAg, FeAu, FeZn, FeCd, CoRh, CoPd, CoCu, CoAg, CoAu, CoZn, CoCd, NiRh, NiPd, NiCu, NiAg, NiAu, NiZn, NiCd, RhCu, RhAg, RhAu, RhZn, RhCd, PdCu, PdAg, PdAu, PdZn, PdCd, PtCu, PtAg, PtAu, CuAg, CuAu, CuZn, CuCd, AgAu, AgZn, AgCd, AuZn, AuCd or ZnCd and the alloy has a stronger oxygen-binding force than platinum or a weaker hydrogen-binding force than platinum.

2. (Original) The catalyst particle according to claim 1, wherein the alloy has a stronger oxygen-binding force than platinum and a weaker hydrogen-binding force than platinum.

3. (Currently Amended) The catalyst particle according to claim 1, wherein the alloy is selected from the group consisting of Cd and Au; Cd and Ag; Cd and Cu; Cd and Ni; Cd and Pd; Cd and Pt; Zn and Au; Zn and Ag; Zn and Cu; Zn and Ni; Zn and Pd; ~~Zn and Pt~~; Cu and Pd; ~~Cu and Pt~~; and Ag and Pt.

4. (Original) A supported catalyst for a cathode of fuel cells, comprising:
an electroconductive, porous carrier having micropores; and
the catalyst particle according to claim 1, positioned in the pores of the carrier.

5-12. (Cancelled).

13. (Previously Presented) The supported catalyst according to claim 4,
wherein the alloy has a stronger oxygen-binding force than platinum and a weaker
hydrogen-binding force than platinum.

14. (Currently Amended) The supported catalyst according to claim 4,
wherein the alloy is selected from the group consisting of Cd and Au; Cd and Ag; Cd
and Cu; Cd and Ni; Cd and Pd; Cd and Pt; Zn and Au; Zn and Ag; Zn and Cu; Zn
and Ni; Zn and Pd; ~~Zn and Pt~~; Cu and Pd; ~~Cu and Pt~~; and Ag and Pt.

15. (Previously Presented) The supported catalyst according to claim 4,
wherein the carrier is activated carbon, graphite, mesoporous carbon powder or
carbon nano tube.

16. (Previously Presented) A fuel cell comprising:
a cathode;
an anode; and
an electrolyte membrane being placed between the cathode and the anode,
wherein the cathode comprises the supported catalyst according to claim 4.

17. (Previously Presented) The fuel cell according to claim 16, wherein the alloy has a stronger oxygen-binding force than platinum and a weaker hydrogen-binding force than platinum.

18. (Currently Amended) The fuel cell according to claim 16, wherein the alloy is selected from the group consisting of Cd and Au; Cd and Ag; Cd and Cu; Cd and Ni; Cd and Pd; Cd and Pt; Zn and Au; Zn and Ag; Zn and Cu; Zn and Ni; Zn and Pd; ~~Zn and Pt~~; Cu and Pd; ~~Cu and Pt~~; and Ag and Pt.

19. (Previously Presented) The fuel cell according to claim 16, wherein the carrier is activated carbon, graphite, mesoporous carbon powder or carbon nano tube.

20. (New) The catalyst particle according to claim 1, wherein the oxygen-binding energy is at least 4.5 eV and/or the hydrogen-binding energy is at most 2.5 eV.

21. (New) The catalyst particle according to claim 1, wherein the alloy comprises three or more metals, wherein the alloy further comprises Co, Ni, Rh, Pd, Pt, Cu, Ag, Au, Zn and/or Cd.

22. (New) The supported catalyst according to claim 4, wherein the oxygen-binding energy is at least 4.5 eV and/or the hydrogen-binding energy is at most 2.5 eV.

23. (New) The supported catalyst according to claim 4, wherein the alloy comprises three or more metals, wherein the alloy further comprises Co, Ni, Rh, Pd, Pt, Cu, Ag, Au, Zn and/or Cd.

24. (New) The fuel cell according to claim 16, wherein the oxygen-binding energy is at least 4.5 eV and/or the hydrogen-binding energy is at most 2.5 eV.

25. (New) The fuel cell according to claim 16, wherein the alloy comprises three or more metals, wherein the alloy further comprises Co, Ni, Rh, Pd, Pt, Cu, Ag, Au, Zn and/or Cd.

26. (New) A catalyst particle for a cathode of fuel cells, wherein at least a portion of the surface of the particle comprises an alloy of two or more metals selected from the group consisting of Fe, Co, Ni, Rh, Pd, Pt, Cu, Ag, Au, Zn, and Cd and the alloy has a stronger oxygen-binding force than platinum or a weaker hydrogen-binding force than platinum, wherein the alloy has an oxygen-binding energy of at least 4.5 eV and/or the alloy has a hydrogen-binding energy of at most 2.5 eV.